

### TIP813 LON-Interface based on Neuron Chip 3150

#### Application Information

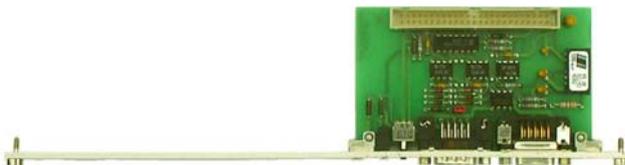
The TIP813 is an IndustryPack® compatible module and provides a complete LON interface using the NEURON Chip 3150.



The communication is executed via a 4 Kbyte Dual Port RAM. A 32 Kbyte EPROM is used to store the protocol firmware of the NEURON Chip 3150 and the application program. All modules have a PROM with the protocol firmware and the MIP/DPR host interface software preinstalled.

Four kinds of on board physical interface are available: The TIP813-10 supports standard RS485 and power line interface. The TIP813-20 supports transformer-coupled 1.25 Mbit interface and the TIP813-21 uses a 78 kbit transformer-coupled interface. The TIP813-30 supports the free topology twisted pair interface based on the ECHELON FTT-10A transceiver.

The complete network communication port of the NEURON Chip is routed to the IndustryPack I/O connector of the TIP813-10. This allows extreme flexibility to interface other physical media, i.e. optically isolated RS485 or power line interface by a separate transition module. The TIP813-TM-10 transition module together with the TIP813-10 support optically isolated standard RS485 on DB9 connector.

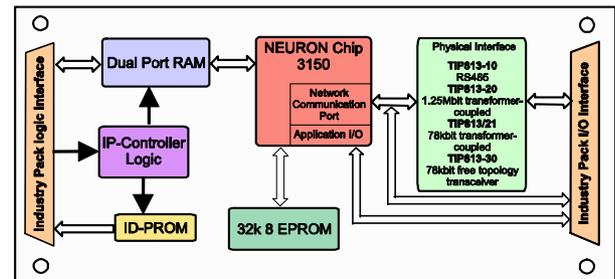


For First-Time-Buyers the engineering documentation TIP813-ED is recommended. The engineering documentation includes TIP813-DOC, schematics and data sheets.

Software Support (TIP813-SW-xx) is available for different operating systems.

#### Technical Information

- Interface according to IndustryPack specification
- Identification-PROM supports auto-configuration
- Single Size IndustryPack
- LON interface based on Neuron Chip 3150
- 4 KByte Dual Port RAM
- 32 KByte EPROM for protocol firmware and application
- Physical interface: RS485 transceiver or transformer-coupled 1.25 Mbit or 78 kbit interface and FTT-10A transceiver
- Complete network communication port of the Neuron Chip connected to IP I/O interface
- MIP / DPR license included



### Order Information

TIP813-DOC

#### None RoHS Compliant

<b>TIP813-10</b>	LON Interface, RS485 IP (None RoHS compliant)
<b>TIP813-20</b>	LON Interface, 1.25 Mbit, transformer coupled (None RoHS compliant)
<b>TIP813-21</b>	LON Interface, 78 kbit, transformer coupled (None RoHS compliant)
<b>TIP813-30</b>	LON Interface, FTT-10A transceiver (None RoHS compliant)
<b>TIP813-TM-10</b>	Transition Module, optical isolated RS485 (None RoHS compliant)

#### Documentation

<b>TIP813-DOC</b>	User Manual
<b>TIP813-ED</b>	Engineering Documentation, includes

#### Software

<b>TIP813-SW-25</b>	Integrity Software Support
<b>TIP813-SW-42</b>	VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
<b>TIP813-SW-65</b>	Windows XP/XPE/2000 Software Support
<b>TIP813-SW-72</b>	LynxOS Software Support
<b>TIP813-SW-82</b>	LiNIX Software Support
<b>TIP813-SW-95</b>	QNX 6 Software Support

For other operating systems please contact TEWS.